

Product Data Sheet

Product Name: CAY10737

Cat. No.: GC45405

Chemical Properties

Cas. No. 2079118-42-4

SMILES C[N+]1=C(C(C)(C)C2=C1C=CC=C2)/C=C/C(CCC3)=C(C3=C4)OC5=C4C=CC(OC(OC=C)=O)=C5

Formula C₃₀H₃₀NO₄

M.Wt 468.6

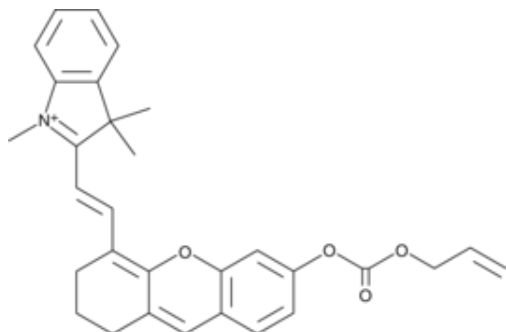
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 1 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

CAY10737 is a turn-on fluorescent probe for the detection of carbon monoxide (CO).¹ It is selective for CO over a variety of anions, amino acids, amines, biothiols, and reactive species. In the presence of palladium (Pd) and CO, CAY10737 undergoes the Pd⁰-mediated Tsuji-Trost reaction to release a fluorescent compound that has absorption and emission maxima of 678/714 nm, respectively. This fluorescence can be used to detect CO production in vitro and in vivo. CAY10737 has low cytotoxicity, decreasing viability of HeLa cells by less than 25% when used at a concentration of 50 μM with PdCl₂ for 24 hours.

Caution: Product has not been fully validated for medical applications. For research use only.

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References

1. Feng, W., and Feng, H. A readily available colorimetric and near-infrared fluorescent turn-on probe for detection of carbon monoxide in living cells and animals. *Sens. Actuators B Chem.* 255(Part 2), 2314-2320 (2018).

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